

Cicindela marginipennis* (Cobblestone Tiger Beetle)*Priority 1 Species of Greatest Conservation Need (SGCN)****Class:** *Insecta* (Insects)**Order:** *Coleoptera* (Beetles)**Family:** *Carabidae* (Ground Beetles)**General comments:**

Recently discovered, single population; flood scoured cobble/gravel habitat on stream/river islands both limited and vulnerable; COSEWIC Endangered and S1 ranked species in other New England states where known; proposed candidate for Maine Endangered status.

No Species Conservation Range Maps Available for Cobblestone Tiger Beetle**SGCN Priority Ranking - Designation Criteria:****Risk of Extirpation:**

Maine Status: Endangered

State Special Concern or NMFS Species of Concern: NA**Recent Significant Declines: NA****Regional Endemic: NA****High Regional Conservation Priority:****Committee on the Status of Endangered Wildlife in Canada (COSEWIC):**

Status: E, Last Examination: 11/1/2008, Change: New, Canada Occurrence: NB

Northeast Regional Synthesis (RSGCN):

Responsibility: High, Concern: High

NatureServe:

Global Rank: G2

High Climate Change Vulnerability: NA**Understudied rare taxa:**

Recently documented or poorly surveyed rare species for which risk of extirpation is potentially high (e.g. few known occurrences) but insufficient data exist to conclusively assess distribution and status. *criteria only qualifies for Priority 3 level SGCN*

Notes: Recently discovered, single population; flood scoured cobble/gravel habitat on stream/river islands both limited and vulnerable; COSEWIC Endangered and S1 ranked species in other New England states where known; proposed candidate for Maine Endangered stat

Historical: NA**Culturally Significant: NA****Professional Discretion:**

Current criteria ranked *Cicindela marginipennis* as SGCN priority 2, however, species should qualify as SGCN priority 1 based on professional discretion.

Justification: Recently discovered, single population; flood scoured cobble/gravel habitat on stream/river islands both limited and vulnerable; COSEWIC Endangered and S1 ranked species in other New England states where known. Candidate species for Maine E/T listing.

Habitats Assigned to Cobblestone Tiger Beetle:**Formation Name****Freshwater Aquatic****Macrogroup Name****Rivers and Streams**

Habitat System Name: Medium River **Notes:** one site only in ME but in other parts of range it is found on cobble in different size rivers

Cicindela marginipennis* (Cobblestone Tiger Beetle)*Priority 1 Species of Greatest Conservation Need (SGCN)**Class: *Insecta* (Insects)Order: *Coleoptera* (Beetles)Family: *Carabidae* (Ground Beetles)**Formation Name Grassland & Shrubland**

Macrogroup Name Lake & River Shore

Habitat System Name: Lake & River Shore Macrogroup - Unknown Habitat System ****Primary Habitat**** Notes: *found on river/stream island cobble and is not associated with lakes***Stressors Assigned to Cobblestone Tiger Beetle:**

Stressor Priority Level based on Severity and Actionability	Moderate Severity	High Severity	
	Highly Actionable	Medium-High	High
	Moderately Actionable	Medium	Medium-High
	Actionable with Difficulty	Low	Low

IUCN Level 1 Threat Other Options**IUCN Level 2 Threat:** Lack of knowledge**Severity:** Moderate Severity **Actionability:** Highly actionable**Notes:** Lack of comprehensive survey and monitoring effort to understand population status & trends and ID additional occurrences**IUCN Level 1 Threat Biological Resource Use****IUCN Level 2 Threat:** Hunting and Collecting Terrestrial Animals**Severity:** Moderate Severity **Actionability:** Moderately actionable**Notes:** Collection pressure on rare tiger beetles can be a problem, especially when distribution is extremely limited**IUCN Level 1 Threat Human Intrusions and Disturbance****IUCN Level 2 Threat:** Recreational Activities**Severity:** Moderate Severity **Actionability:** Moderately actionable**Notes:** Camping and other activities on cobble bar islands in limited area where this beetle occurs could threaten it**IUCN Level 1 Threat Natural Systems Modifications****IUCN Level 2 Threat:** Dams and Water Management-Use**Severity:** Moderate Severity **Actionability:** Moderately actionable**Notes:** Construction of a dams on the single river where this beetle occurs in Maine could have catastrophic results**IUCN Level 1 Threat Residential and Commercial Development****IUCN Level 2 Threat:** Housing and Urban Areas**Severity:** Moderate Severity **Actionability:** Moderately actionable**Notes:** Development and accompanying increase in human activities on river cobble bars can threaten this species**IUCN Level 1 Threat Climate Change and Severe Weather****IUCN Level 2 Threat:** Storms and Flooding**Severity:** Moderate Severity **Actionability:** Actionable with difficulty**Notes:** Very severe floods could damage or destroy habitat on the single river where this beetle occurs in ME**Species Level Conservation Actions Assigned to Cobblestone Tiger Beetle:****Only species specific conservation actions that address high (red) or medium-high (orange) priority stressors are summarized here.*

Cicindela marginipennis* (Cobblestone Tiger Beetle)*Priority 1 Species of Greatest Conservation Need (SGCN)****Class:** *Insecta* (Insects)**Order:** *Coleoptera* (Beetles)**Family:** *Carabidae* (Ground Beetles)

Conservation Action	Category: Research	Biological Priority: high	Type: new
----------------------------	---------------------------	----------------------------------	------------------

Develop an improved understanding of habitat and movement ecology to help develop Best Management Practices and other targeted species conservation actions

Stressor(s) Addressed By This Conservation Action

Lack of knowledge

Guild Level Conservation Actions:

This Species is currently not attributed to a guild.

Broad Taxonomic Group Conservation Actions:

Additional relevant conservation actions for this species are assigned within broader taxonomic groups in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-1.

Habitat Based Conservation Actions:

Additional conservation actions that may benefit habitat(s) associated with this species can be found in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.